	Application No.	Applicant(s)
	09/785,330	YAMAMOTO ET AL.
Notice of Allowability	Examiner	Art Unit
	Onni O Minni	0000
	Gary C. Vieaux	2622
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 + 1. This communication is responsive to 2/13/2006.	(OR REMAINS) CLOSED or other appropriate comn GHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course. THIS
2. The allowed claim(s) is/are 1 and 2.		
3. Acknowledgment is made of a claim for foreign priority unal (a) All b) Some* c) None of the:) or (f).
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have	• •	
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		ew (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's	s Amendment / Comment o	or in the Office action of
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)	5 Notice of I	nformal Patent Application (PTO 152)
 Notice of References Cited (PTO-692) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application (PTO-152) Summary (PTO-413),
	Paper No	summary (P10-413), ./Mail Date s Amendment/Comment
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. 🛛 Examiner	s Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's	s Statement of Reasons for Allowance
	9. 🗌 Other	

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Amendment to the Claims

- 3. (Cancelled).
- 10 4. (Cancelled).

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- 5. (Cancelled).
- 6. (Cancelled).
- 7. (Cancelled).
- 8. (Cancelled).
- 15 9. (Cancelled).
 - 10. (Cancelled).

Election/Restrictions

This application is in condition for allowance except for the presence of claims 3
through 10 directed to species non-elected without traverse. Accordingly, claims 3
through 10 have been cancelled.

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Amendment

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The Amendment filed February 13, 2006 has been received and made of record. In response to the Office Action dated September 12, 2005, claims 1 and 2 have been amended.

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Response to Amendment

In response to Applicant's amended claim 1, the Examiner finds the amendment directly addresses the previous improperly employed articles, and therefore, the objection to claim 1 is hereby withdrawn.

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Allowable Subject Matter

Claims 1 and 2 are allowed.

The following is an examiner's statement of reasons for allowance:

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The prior art is not found to teach or fairly suggest, in combination with the existing elements of the present claims as currently amended, an image sensor comprising a pixel array, each pixel having a light receiving element and a reset switch connected to a reset node of said light receiving element, with the array divided into an effective pixel region and an optical black pixel region, and a read-out circuit, scanning on said pixel array to read out signals from said pixels, including a black clamp circuit for holding a signal from said optical black pixel region as an integrated dark current signal and for correcting a signal from said effective pixel region with said integrated dark current signal, wherein said optical black pixel region comprises a potential

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averaging wiring directly connected to said reset nodes of a plurality of pixels in a pixel row.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary C. Vieaux whose telephone number is 571-272-7318. The examiner can normally be reached on Monday - Friday, 8:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NgocYen T. Vu can be reached on 571-272-7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gary C. Vieaux Examiner Art Unit 2622

Gcv2

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TUANHO PRIMARY EXAMINER